

Gonzalo Martin Perez

AI Software Engineer | Applied AI · Product Engineering · Agentic & Distributed Systems

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PROFESSIONAL SUMMARY

AI Software Engineer with Product Engineering scope, turning complex domains into scalable products across interfaces, BFFs, event-driven microservices, data, and agentic systems, in both cloud and enterprise on-premise environments. Production experience with Java/Spring Boot, Python/FastAPI, TypeScript/Node.js/NestJS, React, PostgreSQL, and AWS, plus RAG and agents with vector retrieval, tools, and guardrails. At fintech scale, helped deliver a complete production load of **20M+ promotions** through an event-driven AWS pipeline that reached approximately **90,000 promotions/s** with zero data loss, and designed the in-product RAG assistant for merchant owners. Held a principal design and implementation role on an enterprise back office, personally integrating its **10+ systems**. Within a three-person team, delivered a platform active at **5 institutions** and used by **1,000+ simultaneous users**. Independent products generated **USD 10,000+ in cumulative client profit**. Information Systems Engineer, 8.67/10 average and 10/10 Final Year Project.

PROFESSIONAL EXPERIENCE

AI Engineer | Rampy

Sep 2026 – Present | Remote

AI Engineering · Agentic Systems · Fintech

- **Set up an agentic engineering workspace** to preserve context and enable coordinated parallel work while onboarding as an AI Engineer.

Software Engineer | Teamcubation

Dec 2025 – Aug 2026 | Argentina · Remote

Payway promotions platform — contributed as a key engineering team member to a complete historical load of **20M+ promotions in production** and the ingestion of thousands of new promotions per day, within an ecosystem of 350,000+ merchants, 70+ card issuers, and 13 countries.

- **Delivered the promotions experience end to end:** integrated a Single-SPA React/TypeScript microfrontend through a Spring WebFlux BFF and used Amazon API Gateway to bridge the HTTPS merchant portal with internal HTTP services.
- **Built Java/Spring Boot and TypeScript/Node.js/NestJS microservices** using hexagonal or layered architecture, and developed and diagnosed containerized workloads running in Docker/Kubernetes-managed environments.
- **Implemented an event-driven/serverless flow** with Amazon S3, SQS, and a Python/FastAPI AWS Lambda: production execution with real data reached approximately **90,000 promotions/s** with zero data loss across the complete load. Also built Python/Node.js tooling for local loads, reconciliation, reporting, and diagnostics.
- **Designed an in-product RAG and agentic system** for merchant owners using Python, LangChain, LangGraph, PostgreSQL/pgvector, and guardrails, augmenting LLM context with banking promotions associated with each merchant.
- **Created a custom agentic engineering workspace** for the product's multi-repository integration landscape to streamline context retrieval, token usage, and consistent feature delivery.

AI Engineer & Full-Stack Developer | Self Employed

Jan 2024 – Present | Argentina · Remote

Independent Product Engineering · Revenue-generating products, internal operations systems, and AI automation for e-commerce, social media, and digital-product clients.

- **Designed and shipped digital products**, back offices, and stock/point-of-sale extensions that generated **USD 10,000+ in cumulative client profit**, connecting commercial needs with maintainable, scalable operations.
- **Built MCP-, Claude-, and LLM-powered pipelines and agents** for end-to-end content research, generation, and publishing; clients estimated operating-cost reductions of at least **70%**.

- **Developed online stores, WordPress solutions, APIs, and custom full-stack integrations** with Python/Node.js tooling for automation, bulk processing, and data analysis under Spec-Driven Development, cutting manual tasks from hours to minutes per cycle.

Software Engineer | Cooperativa Obrera

Dec 2024 – Dec 2025 | Bahía Blanca, Argentina · On-site

SGA · Secure, scalable enterprise back office for administering sensitive data, permissions, and auditing at Argentina's largest consumer cooperative: **150+ branches, 2.7M+ members**, and 50+ internal systems. Held a principal design, architecture, and implementation role with Product Engineering scope.

- **Built a responsive, dynamic Next.js/TypeScript frontend** connected exclusively to a Python/FastAPI BFF, which centralized the back-office contract and decoupled the UI from downstream microservices and integrations.
- **Personally integrated all 10+ systems covered by SGA** through Java/Spring Boot and TypeScript/Node.js/NestJS microservices conforming to a shared permissions contract. To scale the work, built an agentic cross-system workspace that preserved context across repositories.
- **Standardized system onboarding** with reusable structures, filters, and validation, reducing permission-related tickets and manual assignments by at least **80%** and eliminating at least **95%** of recurring assignment bugs, based on before/after tickets and logs.
- **Cut permission searches from approximately 10 minutes to under 10 seconds** through SQL tuning, indexing, and pagination while keeping critical endpoints below **300 ms on average** in qualified tests on enterprise on-premise servers.
- **Automated bulk loads and data validation with Python** and implemented LDAP authentication and a complete audit trail with exportable reports.

TECHNICAL SKILLS

Applied AI & Agentic Systems: AI Agents, RAG, LangChain, LangGraph, Model Context Protocol (MCP), LLM Integration, Vector Databases, pgvector, AI Guardrails, Claude API

Backend & APIs: Spring Boot, FastAPI, NestJS, Spring WebFlux, Spring MVC, Spring Security, Spring Data JPA, Laravel, REST APIs, Microservices, OpenAPI

Languages & Runtimes: Python, TypeScript, Java, JavaScript, Node.js, SQL, PHP

Frontend & Product UI: React, Next.js, Single-SPA, Microfrontends

Data & Architecture: PostgreSQL, MySQL, Redis, System Design, Distributed Systems, Hexagonal Architecture, Layered Architecture, MVC, Event-Driven Architecture, SQL Tuning

Cloud & Delivery: AWS, AWS Lambda, Amazon API Gateway, Amazon S3, Amazon SQS, Amazon CloudWatch, Serverless, Docker, Kubernetes, GitLab CI/CD, GitHub Actions

Quality, Delivery & Observability: JUnit, Mockito, Jest, SonarQube, OpenTelemetry, Prometheus, Grafana, RBAC, LDAP, Application Security, Agile

Fintech & Blockchain: Fintech, Blockchain, Web3, Account Abstraction, Smart Accounts, DeFi, ERC-20, ERC-4337

EDUCATION

Information Systems Engineer | Universidad Nacional del Sur (UNS)

Jan 2020 – Oct 2025 | Bahía Blanca, Argentina | Average grade: 8.67 / 10

Graduated from a 5-year accredited engineering program at one of Argentina's top-ranked public universities: **#10 nationally** in the 2026 SCImago Institutions Rankings and #8 nationally across five consecutive CWUR editions (2020–2024). Completed 34/34 courses, an **8.67/10 average**, a **10/10 Final Year Project**, and Supervised Professional Practice. Relevant coursework: AI Systems, Systems Architecture & Design, Databases, Software Verification & Validation, Algorithms & Complexity, and Formal Methods.

View verified academic record →

SELECTED PROJECT

Filomena · Production Exam Platform for Health Sciences

Jan 2025 – Dec 2025

Production platform active at **5 Argentine national institutions**; Final Year Project graded **10/10**, built by a three-person team with me as principal author and contributor.

- **Led architecture, backend, frontend, and infrastructure**, modernizing a CakePHP + jQuery monolith into an API-first product with a Laravel REST API and Next.js/React/TypeScript frontend.
- **Supported 1,000+ simultaneous users observed in production** with complete consistency and critical endpoints below **300 ms on average** through SQL tuning, Redis caching and queues.
- **Reduced institutional onboarding from hours to minutes** with production Docker/GitHub Actions deployments observed below **15 minutes**.
- **Implemented production security and observability** with Prometheus/Grafana, multi-role RBAC, student anonymity and per-institution data isolation.
- **Drove the technical contribution and coordinated Agile delivery** with Trello, from requirements through production; the project received interviews and mentions from university authorities and outlets.

[View case study →](#)

LANGUAGES

Spanish: Native

English: Professional working proficiency (B2)

CERTIFICATIONS

Docker Fundamentals - Universidad Nacional del Sur | Mar 2024

Professional Power Skills - Kognité | Jun 2026